



PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-Pre-Cleaned EPDM Membrane

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-Pre-Cleaned EPDM Membrane is a high performance non-reinforced membrane that stands up to tearing, impacts, punctures and normal roof traffic. The elastomeric properties of the EPDM membrane compensate for thermal shock and building movement. EPDM membranes provide excellent resistance to ozone and aging. The membrane is manufactured in accordance with the guidelines established by the RMA (Rubber Manufacturers Association) and meets or exceeds the ASTM Standard Specification D 4637. Fire Retardant (FR) EPDM membranes are specially formulated to inhibit spread of flame and meet or exceed code body testing criteria for fire retardant roofing membranes.

ERS-Pre-Cleaned EPDM membrane is available with in-seam tape that is pre-applied to the sheet. See below for sizes available.

RECOMMENDED USES:

ERS-Pre-Cleaned EPDM Membrane is used primarily in fully adhered roofing systems.

ADVANTAGES:

- Economical system
- Lightweight
- Ease of Installation
- Can eliminate tear-off of existing roof if appropriate.
- Outstanding weatherability

PACKAGING:

Roll sizes are available in 10' (3m) widths and lengths of 50' (15m) and 100' (30M). Roll sizes for pre-taped ERS-Pre-Cleaned EPDM Membrane is as follows:

Product	Packaging	Roll Size	Tape Width
.045 Pre-Cleaned, Pre-Taped	2-Pack	10' X 100'	3"
.060 Pre-Cleaned, Pre-Taped	2-Pack	10' X 50'	3"
.060 Pre-Cleaned, Pre-Taped	2-Pack	10' X 100'	3"
.090 Black, Pre-Taped, Dusted*	2-Pack	10' X 50'	3"
.090 Black, Pre-Taped, Dusted*	2-Pack	10' X 50'	6"
.090 Black, Pre-Taped, Dusted*	2-Pack	10' X 100'	6"

APPROVALS:

ERS-Pre-Cleaned EPDM Membrane may be provided with UL and FM labels. Both UL and FM classified assemblies are available (ex: FM 1-60 and 1-90, UL Class A, B and C).



INSTALLATION:

Install the EPDM membrane in accordance with the appropriate current printed Ecology Roof Systems specification. Carefully review and follow the installation instructions in the Ecology Roof Systems manual. All flashing details are to be installed in accordance with Ecology Roof Systems current published details.

PHYSICAL PROPERTIES:

Physical Properties	Test Method	SPEC (Pass)	Typical Values
Tolerance on Nominal Thickness, %	ASTM D 412	± 10	± 10
Weight, lbm/ft ² (kg/m ²) .060 .090			0.35 (1.7) 0.59 (2.9)
Tensile Strength, min, psi(Mpa)	ASTM D 412	1305 (9)	1685 (11.6)
Elongation, Ultimate, min, %	ASTM D 412	300	480
Tear Strength, min, lbf/in (kN/m)	ASTM D 624 (Die C)	150 (26.3)	200 (35.0)
Factory Seam Strength, min.	ASTM D 816 Modified	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 4 weeks @ 240°F(116°C) Tensile Strength, min, psi(MPa) Elongation, Ultimate, min, % Tear Resistance, min,lbf/in(kN/m) Linear Dimensional Change, max, %	ASTM D 573 ASTM D 412 ASTM D 412 ASTM D 624 ASTM D 1204	 1205 (8.3) 200 125 (21.9) ± 1.0	 1550 (10.3) 225 215 (37.6) -0.4
Ozone Resistance* Conditions after exposure 100 pphm Ozone in air for 168 hrs @ 104°F(40°C) Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg.C)*	ASTM D 746	-49 (-45)	-67 (-55)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C), Change in mass, max, %	ASTM D 471	+8, -2	+3.6
Water Vapor Permeability* max, perm-mils	ASTM E 96 (Proc. B or BW)	0.10	0.05
Resistance to Outdoor (Ultraviolet) Weathering Xenon-Arc, 4000 hrs. exposure, 176°F (80°C) black panel temperature	ASTM D 4637 Conditions	No Cracks No Cracking	No Cracks No Cracking
*Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests run on a statistical basis to ensure overall long-term performance of the sheeting.			

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To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact Ecology Roof Systems to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Ecology Roof Systems. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY ECOLOGY ROOF SYSTEMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.